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## PATENT ABSTRACTS OF JAPAN

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TAKESHITA SHIGERU****(54) INPUT SEPARATION TYPE TORQUE  
CONVERTER**

(57) Abstract:

**PURPOSE:** To prevent a creep phenomenon in a car from occurring as well as to make improvements in a driving feeling ever so better, by setting up a torsion damper disc using a torsion spring concentrically between a housing and an impeller shell in a torque converter being well accepted for automobiles and the like.

**CONSTITUTION:** In this torque converter bearing the above caption, a turbine impeller 33 is secured tight to a turbine hub 31 fitted in an output shaft 28 through a spline, while a stator impeller 44 to a stator shaft 35 via a one-way clutch part 39 and further an impeller vane 45 to a boss part 48 fitted in the stator shaft 35 in the same manner, respectively. In this case, a torsion damper disc 58 consisting of two ringlike side plates 59 and 60 being locked at intervals, an input side plate 61 installed between these plates 59 and 60 and a torsion spring 65 is interposed between a housing 24 and the impeller vane 45. An inner circumferential part of the input side plate 61 is secured tight to a pressure plate 55 which is displaceable by means of

differential pressure between hydraulic chambers 72 and 73.

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